



# Transmission Operations and Planning Advisory Meeting Winter 2025

Location: EPRI Office, Charlotte, NC

MONDAY FEB 24, 2025	
TIME (EST)	TOPIC
8:30 AM	Welcome and Overview of Agenda
9:00 AM	<b>Opening Keynote Session</b>
10:00 AM	Break
10:30 AM	<b>EPRI Highlights and Roundtable</b> <ul style="list-style-type: none"> <li>• Overview of recent efforts</li> <li>• Input on key issues and R&amp;D needs (questions in advance)</li> </ul>
12:00 PM	Lunch
1:00 PM	<b>Integration of Power Electronics-Based Resources and Loads: The Journey Continues</b> <ol style="list-style-type: none"> <li>1. EMT application (EPRI)</li> <li>2. IBR commissioning programs (Guest speaker)</li> <li>3. Hyperscale load integration – Utility presentation</li> <li>4. Data Center presentation</li> </ol>
3:00 PM	Break
3:30 PM	<b>Leveraging AI in operations and planning- what's hype and what's real</b> <ol style="list-style-type: none"> <li>1. AI at EPRI</li> <li>2. Example use case – utility/ISO presentation</li> <li>3. Breakout discussion on benchmarking</li> </ol>
5:00 PM	Adjourn
5:30 – 8:00	<b>Dinner</b>

## TUESDAY, FEBRUARY 25, 2025

TIME (EST)	PLANNING TASK FORCE STREAM	OPERATIONS TASK FORCE STREAM
8:00 AM	<b>Planning Software Tools Carousel</b> <ul style="list-style-type: none"> <li>30 minute demonstration of tools in small groups</li> <li>Opportunity to engage with EPRI staff and other members on use of tools and methods</li> </ul>	<b>Next-Gen Transmission Modeling and Digital Twins</b> <ul style="list-style-type: none"> <li>Utility Perspective: Modeling and Network Assessment Needs</li> <li>EPRI Research : Modeling and Data Architecture framework (39A/D)</li> <li>State-of-the-Art</li> </ul>
10:00 AM	Break	
10:30 AM	<b>New Topics in System Protection</b> <ul style="list-style-type: none"> <li>Use of AI to support protection studies</li> <li>Utility presentation on applying EPRI R&amp;D</li> <li>Projects - 2024 research + 2025 plans (40B, 173A)</li> </ul>	<b>Operations Tools Carousel</b> <ul style="list-style-type: none"> <li>30-minute demonstration of tools in small groups</li> <li>Opportunity to engage with EPRI staff and other members on use of tools and methods</li> </ul>
12:00 PM	Lunch	
1:00 PM	<b>Lab Tour of EPRI labs</b>	
3:00 PM	Break	
3:30 PM	<b>Risk/Resilience in System Planning (Joint Session with Energy Systems and Climate Analysis)</b> <ul style="list-style-type: none"> <li>Topic TBD (relevant to adequacy, risk-based planning, integrated planning, etc.,)</li> <li>Member presentations</li> <li>EPRI R&amp;D overview and 2025 plans (40C, 173C)</li> </ul>	<b>Training and Educating for Evolving grid</b> <ul style="list-style-type: none"> <li>Training Needs (Utility Presentations)</li> <li>Highlights of EPRI – U TOP</li> <li>TOP Training Roadmap: 2025 and beyond</li> </ul>
5:00 PM	Adjourn/Reception	

## WEDNESDAY, FEBRUARY 26, 2025

TIME (EST)	PLANNING TASK FORCE STREAM	OPERATIONS TASK FORCE STREAM
8:00 AM	<b>Recent and New Cross-EPRI Initiatives</b> Carousel session with variety of TOP-related initiatives – your chance to find out more! <ul style="list-style-type: none"> <li>• Integrated Strategic System Planning</li> <li>• Climate READi</li> <li>• GETSET</li> <li>• DC FLEX</li> <li>• Grid Impact</li> </ul>	
10:00 AM	Break	
10:30 AM	<b>Special Studies and Tools</b> <ul style="list-style-type: none"> <li>• Power Quality</li> <li>• Sub-synchronous oscillations</li> <li>• HVDC</li> <li>• GMD</li> <li>• Member presentations and EPRI updates</li> </ul>	<b>Managing IBRs in Operations</b> <ul style="list-style-type: none"> <li>• PMU-based IBR Oscillation Monitoring ( EPRI research + Industry use cases</li> <li>• Impact of IBR on Voltage and Reactive Power control (EPRI research + recent events)</li> <li>• Impact on reserves (173B)</li> </ul>
12:00 PM	Lunch	
1:00 PM	<b>Modeling and IBR integration</b> <ul style="list-style-type: none"> <li>• Project updates (40A, 173A)</li> <li>• IBR conformity assessment and 2800 adoption</li> <li>• Member presentations on IBR integration</li> </ul>	<b>Enhancing Resilience in Operations</b> <ul style="list-style-type: none"> <li>• Recent Blackouts</li> <li>• Adequacy of System Defense Plans (Utility Presentations + EPRI research)</li> <li>• Role of Emerging Technologies in Restoration ( Utility presentation + EPRI Research)</li> </ul>
3: 00 PM	Break	
3:30 PM	<b>Long Term Transmission Planning – Uncertainty and Risk</b> <ul style="list-style-type: none"> <li>• Implementing O1920 – Key EPRI R&amp;D</li> <li>• Member presentations on LT Planning</li> <li>• Update on EPRI R&amp;D</li> </ul>	<b>Future-ready Outage Planning</b> <ul style="list-style-type: none"> <li>• Industry challenges and needs: Utility presentations</li> <li>• EPRI Research and 2025 plans ( Outage Tool, Optimal Outage scheduling, Scenario Generation, Forecasting)</li> <li>• Probabilistic Operations Planning ( Utility presentation and EPRI research)</li> </ul>
	Adjourn	

## ADDITIONAL INFORMATION

**DINNER – MONDAY NIGHT**  
**JOINT RECEPTION W/ESCA – TUESDAY NIGHT**